BARYSHEVSKIY, V.G.; PODGORETSKIY, M.I.

Nuclear precession of neutrons. Zhur. eksp. i teor. fiz. 47 no.3:1050-1054 S '64. (MIRA 17:11)

1. Ob"yedinennyy institut yadernykh issledovaniy.

LYUBOSHITS, V.L.; PODGORETSKIY, M.I.

Possible method for determining the magnetic moment of a Σ^{+}-hyperon. Zhur.eksp.i teor.fiz. 46 no.6:2221-2226 Je '64.

1. Ob"yedinennyy institut yadernykh issledovaniy.

(MIRA 17:10)

L 48126-65 EWT(1)/EWT(m)/EWG(v)/EEC(t)/T/EWA(m)-2 Pa-5/Pae-2 GW
ACCESSION NR: AP5011219 UR/0367/65/001/003/0490/0496

40

AUTHOR: Lyuboshits, V. L.; Okonov, E. O.; Podgoretskiy, M. I. 36

B

TITLE: The galactic hypercharge field and decay of long lived neutral mesons into two pi mesons 19

SOURCE: Yadernaya fizika, v. 1, no. 3, 1965, 490-496

TOPIC TAGS: galactic structure, galactic radiation, radioactivity, meson, meson reaction, physics, mass energy relation, relativity, elementary particle, field theory

ABSTRACT: The authors give a general analysis of the basic properties of classical fields generated by nonconserved charges, basing their work on the "action by contact" principle. By this principle they mean spatial localization of energy, and finiteness of the speed of propagation of energy. It is shown that while introduction of the above fields does not imply violation of energy conservation, these fields cannot quantitatively explain the experimental results of Christenson et al. (*Phys. Rev. Lett.*, 13, 138, 1964). The authors also disagree with Ball, J. S. et al. (*Phys. Rev. Lett.*, 13, 348, 1964) and Bernstein, J. et al. (*Phys. Lett.*, 12, 146,

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1964). These papers are said to contradict the principle of action by contact, which is basic to modern physics. In these papers, the decay $K^0 \to 2\pi$ at large distance from the generation point is interpreted as the result of regeneration of $K_1{}^0$ mesons in the specific field of our galaxy. A general outline of some basic properties of the system consisting of hypercharges and the galactic field is given. The difference in the structure of such a system is the nonconservation of hypercharge in weak interaction processes. A similar situation is noted in the case of antigravitation problems, for here the hypercharge is responsible for mass attraction, positive for particles, negative for antiparticles. The authors confine their work to classical fields with nonconservation of charge g. The possibility of creation and annihilation of charge in g-fields leads automatically to breakdown of the equation of continuity and the nonconservation of g-current. Motion in this field will violate energy conservation only if certain poorly defined postulates are made. It appears that in making certain assumptions about the field, the assumption of violation of conservation is put in. Under certain conditions, certain cyclic processes appear nonconservative. The authors formulate basic postulates common for all classical fields, which hold for g-fields. Then they analyze energy relations for charge change in an external static g-field. Many other authors have used the assumption that in change of charge of particles found in a

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point A, their potential energy instantaneously changes by a value $\Delta g\phi(A)$ where Δg is the change in charge and ϕ is the field potential. This contradicts short-range action. Instantaneous change is possible only for finite speed of propagation of the reaction. The decay $\Lambda^0 \rightarrow N + \pi$ in the galactic g-field is analyzed from the point of view of short-range action. It is found that the energy of interaction of charges that are not conserved is not a single valued function of their interaction or of their mutual distribution in space. The problem of $K_2{}^0 \rightarrow 2\pi$ decay is considered. It is shown that the scheme for K meson formation in the galactic field that is assumed in the papers referred to and also the formation scheme for $K_1{}^0$ mesons in the gravitational field is inconsistent from the viewpoint of the principle of short-range action. If short-range action is valid, the regeneration of $K_1{}^0$ mesons cannot be affected by the potential created by charges which are a great distance from the neutral K meson. The actual effect of the g-field on the properties of the neutral K mesons is considered. It is concluded that the parameter of nonconservation of CP cited by Christenson cannot be generally applied to the system proposed in this article. Experiments done at different times at different points should lead to different results. Meanwhile, only a single experiment, that of Christenson, exists. Thus, in spite of the possibility of existence of a g-field with nonconserved charge, the $K_2{}^0 \rightarrow 2\pi$ decay which was experimentally observed by

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Christenson cannot be explained within the "action by contact" theory as an effect of the regeneration in this field of K_1^0 mesons. "We are glad to thank V. G. Baryshevskiy, V. I. Ogiyevetskiy and A. V. Tarasov for participating in our discussions and for their valuable comments."

ASSOCIATION: Ob"yedinnenniy institut yadernykh issledovaniy (Joint Institute for Nuclear Research)

SUBMITTED: 02Jan65 ENCL: 00 SUB CODE: NP, GP

NO REF SOV: 003 OTHER: 013

Card 4/4

L 11060-65 EWT(m) AFETR/SSD/AFWL/ASD(a)-5/ESD(gs)/ESD(t)

ACCESSION NR: AP4046425 S/0056/64/047/003/1050/1054

AUTHORS: Bary*shevskiy, V. G.; Podgoretskiy, M. I.

B

TITLE: Nuclear precession of neutrons/19

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 1050-1054

TOPIC TAGS: neutron, nuclear precession, neutron spin precession, polarization

ABSTRACT: A general treatment is presented of the passage of slow polarized neutrons through a polarized target. It is shown that the neutron spin precesses around the direction of polarization of the target with a definite frequency which is independent of the neutron velocity. If a magnetic field rotating around the direction of the polarization is produced in the polarized targets, then the transitions produced between the different energy levels will cause de-

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ACCESSION NR: AP4046425

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polarization of the initially-polarized neutron beam. Other phenomena, which are similar to neutron paramagnetic resonance at this frequency, are also discussed. For example, placing the polarized target in a permanent magnetic field can cause precession of the target nuclei with a field-dependent frequency. The attenuation of the beam passing through the target is also discussed. "The authors are grateful to S. S. Gershteyn and V. L. Lyuboshits for a discussion of the problems dealt with in the article." Orig. art. has: 13 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 03Apr64 ENCL: 00

SUB CODE: NP NR REF SOV: 002 OTHER: 004

Card 2/2

L 16099-65 EWT(m) DIAAP

ACCESSION NR: AP5000345 S/0056/64/047/005/1868/1873

AUTHORS: Lyuboshits, V. L.; Okonov, E. O.; Podgoretskiy, M. I.

TITLE: Effect of medium on properties of neutral kaon 19 antikaon 19 pairs 19

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 5, 1964, 1868-1873

TOPIC TAGS: K meson, K particle, pair theory, particle interference

ABSTRACT: The purpose of the investigation was to ascertain the influence of the medium on the interference phenomena occurring in $K^0\bar{K}^0$ systems and to estimate the accuracy of the usual approximation, within the framework of which the K^0 mesons are regarded as free. In estimating the influence of the coherent interaction of the K^0 and $\bar{K}^0$ mesons with the medium on the properties of the $K^0\bar{K}^0$ pairs

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the authors obtain a system of basic functions for such pairs in the medium, and note the specific features of the interference phenomena in the systems $K^0\bar{K}^0$, $K_1^0K_2^0$, $K_1^0(K_2^0)$, and $K^0(\bar{K}^0)$. It is shown that the equations for $K^0\bar{K}^0$ pairs previously derived by one of the authors (Okonov et al., ZhETF v. 43, 720 and 1362, 1962), with the K^0 mesons regarded as free, are subject to an error which can reach 10% and which must be taken into account. Orig. art. has: 18 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 13May64

ENCL: 00

SUB CODE: NP

NR REF SOV: 003

OTHER: 003

BARYSHEVSKIY, V.G.; LYUBOSHITS, V.L.; PODGORETSKIY, M.I.

Neutron scattering on a polarized target. IAd. fiz. 2 no.3: 441-444 S '65. (MIRA 18:9)

1. Ob"yedinennyy institut yadernykh issledovaniy.

S/035/62/000/010/023/128
A001/A101

9.9600

AUTHORS: Bayrachenko, I. V., Podgoretskiy, Ye. D.

TITLE: Equipment for experimental investigation of scattering of radio waves from meteor trails

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 43, abstract 10A313 ("Sb. rabot po Mezhdunar. geofiz. godu. Kiyevsk. un-t", 1961, no. 1, 49 - 51)

TEXT: The authors describe an indicator-recording device of radar equipment for meteor observations simultaneously at frequencies of 31, 36, 72 and 213 Mc. Distance and amplitude-time characteristics of reflected signals are recorded for each meteor.

VB

[Abstracter's note: Complete translation]

Card 1/1

PODGORETSKIY, Ye. G., YASHCHENKO, M. Ya.,

Experience With Surgical Treatment of Pulmonary Tuberculosis Under the Conditions Prevailing at a Garrison Hospital.

VOYENNO-METSINSKIY ZHURNAL (MILITARY MEDICAL JOURNAL), No 3, 1955 p. 66.

ZAKURDAYEVA, N.P.; PODGORETSKIY, Ye.K.

Fractionation of cellulose triacetate. Khim. volok. no.6:
70-71 '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut.

PODGORETSKIY, Ye.K.; SAVITSKAYA, V.A.

Solubility of highly acetylated acetylcellulose in mixtures of methylene chloride with aldohols. Soob.o nauch.rab.chl.VKHO no.3:40-42 '55. (MIRA 10:10)
(Solubility) (Cellulose acetates) (Methane)

PODGORETSKIY, Ye. K.

YUZHNAYA, D.M.; PODGORETSKIY, Ye.K.

Studying the polydispersion of cellulose triacetates. Soob.o nauch.rab.chl.VKHO no.3:36-39 '55. (MIRA 10:10)
(Cellulose acetates)

PODGORETSKIY, Ye.K.

AVILOV, G.V.; PODGORETSKIY, Ye.K.; EYSYMONT, L.O., redaktor;
VORONTSOVA, Z.V., tekhnicheskiy redaktor.

[Motion-picture screens and ways of making them] Kinoekrany i
sposoby ikh izgotovleniia. Moskva, Gos. izd-vo "Iskusstvo,"
1954. 82 p. (MLRA 8:3)
(Motion-picture projection)

PODGORETSKIY, Ye.K.

4

chem

2

Influence of surface-active agents on dehydration of nitrocellulose. L. V. Rozental and E. K. Podgoretskii. *Khim. Prom.* 1955, 112.—The process of dehydration of nitrocellulose (I) can be substantially facilitated and improved by the use of surfactants able to adsorb themselves interfacially between the water phase and I phase. The studies were based upon the use of Russian surfactant "OP-10," which represents a mixt. of alkylated derivs. of phenol-polyethylene oxide complex. The dehydration was conducted by means of the centrifuge (diam. 95 mm.). The addn. of minute amts. of surface-active agent (0.02-0.1% concn. in H_2O) substantially decrease the moisture-retaining characteristics of I. The phenomenon became more pronounced as the time of steeping of I in the soln. contg. surfactant was extended. It also appears that the use of surfactants is of special value at a low speed of the centrifuge. Example: (Centrifuging at 2000 r.p.m. for 15 sec.) water retention for untreated I is 54.5%, for surfactant treated I 30.0%. The results are shown in graphs and tables.

Adam J. Pikor

PODGORICHANI, V.S., nachal'nik.

Designing a self-propelled tea harvester and its working parts. Sel'khozmashina no.10:3-7 O '53. (MLRA 6:11)

1. Laboratoriya po uborke i obrabotke subtropicheskikh kul'tur GSKB po chayu.
(Tea machinery)

PODGORICHANI, V.S., inzh. (Sochi)

Agricultural machinery for mountain areas. Nauka i zhizn' 27 no.
7:33-34 Jl '60. (MIRA 13:7)
(Agricultural machinery)

S.

PODGORICHANI, V.; CHAYSHVILI, T.; OGANEZOV, G.; NASARIDZE, D.; SHIPOV, A.; MANDROKHLEBOV, V.

Tea-plucking machine. Tekh.mol.22 no.4:33 Ap '54. (MLRA 7:4)
(Tea machinery)

PODGORINOV, A., inzh.

Water intake installations and flumes of rural hydroelectric power stations. Sil'.bud. 7 no.6:19-21 Je '57.
(MIRA 13:3)

(Hydroelectric power stations)

PODGORINOV, A.

112-2-2938

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p. 55 (USSR)

AUTHOR: Podgorinov, A.

TITLE: Inter-Collective Farm Hydro-electric Power Stations (Mizhkolgospni gidroelektrostantsii) (In Ukrainian)

PERIODICAL: Sel'skoye str-vo, 1956, Nr 5, pp. 16-18

ABSTRACT: Bibliographic entry.

Card 1/1

PODGORINOV, A. L.

8(6);14(6) PHASE I BOOK EXPLOITATION SOV/2961

Podhorinov, Anatoliy Leonidovych, and Leonid Samsonovych Khilobochenko

Hidroenergetychne vykorystannya malykh richok Ukrayiny (Water Power Utilization of Small Rivers of the Ukraine) Kyyiv, Vyd-vo AN URSR, 1959. 193 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrayins'koyi RSR. Rada po vyvchennyu produktyvnykh syl URSR.

Resp. Ed. of Publishing House: O. M. Pyechkovs'ka; Tech. Ed.: I. D. Mil'okhin; Ed.: I. L. Rozovs'kyy, Candidate of Technical Sciences.

PURPOSE: The book is intended for hydraulic and power engineers and other specialists concerned with the erection and operation of small hydroelectric stations for rural use. It will be of use to students studying hydraulic and power engineering.

COVERAGE: This book reviews the latest practices in design and operation of small hydroelectric power stations serving the rural economy, with particular emphasis upon conditions in the

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Ukrainian SSR. General principles governing the selection of construction site, the actual building of the station and its components, and, finally, the methods of operation and output indicators are described and analyzed. The problem of future utilization of streams and rivulets for additional power generation is discussed. Of particular interest are descriptions of innovations introduced in the construction of dams. There are 62 Soviet references.

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AVAILABLE: Library of Congress (TK1486.U45P6)

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KUDIN, Sergey Nikolayevich [Kudin, S.M.]; PODGORINOV, Anatoliy Leonidovich [Podhorinov, A.L.]; KHILOBOCHENKO, Leonid Samsonovich; POLTORATSKAYA, Ye. [Poltorats'ka, E.], red.; VOLOSHCHENKO, Z., red.; NARINSKAYA, A. [Narins'ka, A.], tekhn.red.

[Small hydroelectric power stations of the Ukrainian S.S.R.] Mali hidroelektrostantsii URSR. Kyiv, Derzh.vyd-vo lit-ry z budivnytstva i arkhit. URSR, 1960. 158 p. (MIRA 14:3)
(Ukraine--Hydroelectric power stations)

PODGORINOV, Anatoliy Leonidovich [Podhorinov, A.L.]; KHILOBOCHENKO, Leonid Samsonovich; ROZOVSKIY, I.L. [Rozovs'kyi, I.L.], kand. tekhn.nauk, otv.red.; MIL'OKHIN, I.D., tekhn.red.

[Use of minor rivers in the Ukraine for hydroelectric power] Gidroenergetychne vykorystannia malykh richok Ukrainy. Kyiv, Vyd-vo Akad.nauk URSR, 1959. 193 p. (MIRA 12:6)
(Ukraine--Hydroelectric power stations)

GORDON, M.B.; PODGORKOV, V.V.; UKHALOV, A.P.

Gutter for machining T-shaped grooves. Stan. i instr. 35 no.6: 26-27 Je '64 (MIRA 17:8)

ANDREYEV, G.S., kand. tekhn. nauk; BOKUCHAVA, G.V., kand. tekhn. nauk, dots.; BRAKHMAN, L.A., inzh.; BUDNÍKOVA, A.V., inzh.; GORDON, M.B., kand. tekhn. nauk, dots.; ZHAVORONKOV, V.N., inzh.; KARZHAVINA, T.V., kand. tekhn. nauk; KOROTKOVA, V.G., inzh.; KORCHAK, S.N., inzh.; KLUSHIN, M.I., kand. tekhn. nauk, dots.; KUZNETSOV, A.P., kand. tekhn. nauk, dots.; KURAKIN, A.V., inzh.; LATYSHEV, V.N., inzh.; OL'KHOVSKIY, V.N., inzh.; ORLOV, B.M., kand. tekhn. nauk, dots.; OSHER, R.N., inzh.; PODGORKOV, V.V., inzh.; ; SIL'VESTROV, V.D., kand. tekhn. nauk [deceased]; TIKHÓNOV, V.M., inzh.; TROITSKAYA, D.N., inzh.; KHRUL'KOV, V.A., inzh.; LESNICHENKO, I.I., red. izd-va; SOKOLOVA, T.F., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Lubricating and cooling fluids and their use in cutting metals] Smazochno-okhlazhdaiushchie zhidkosti pri rezanii metallov i tekhnika ikh primeneniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 291 p. (MIRA 15:1)
(Metalworking lubricants)

GORDON, M.B.; RYABCHIKOV, A.N.; PODGORKOV, V.V.; FEDULOV, I.G.

Automation of units supplying atomized fluid to cutting area.
Stan.i instr. 33 no.2:30-31 F '62. (MIRA 15:1)
(Metalworking lubricants)

MURAV'YEV, I.M., prof.; ARZUMANOV, Sh.K., inzh.; ARKHANGEL'SKIY, N.K., inzh.; BAZLOV, M.N., inzh.; GROBSHTEYN, S.R., kand.tekhn.nauk; ZHUKOV, A.I., dotsent, MAKHMUDBEKOV, E.A., inzh.; MOVSESOV, N.S., inzh.; MURAV'YEV, V.M., inzh.; NEGREYEV, V.F., kand.tekhn. nauk; PLOTEL', S.G., kand.tekhn.nauk; PODGORNOV, M.I., inzh.; RUBACHEV, G.N., kand.ekon.nauk; SULTANOV, D.K., inzh.; SHTER, B.O., inzh.; SAVINA, Z.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Reference book on petroleum production] Spravochnik po dobyche nefti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.3. 1960. 712 p. (MIRA 13:5)
(Oil fields--Production methods)

PODGORNA, O.M.

AUTHOR: Ginzburg, Z. L. 129-58-5-15/17

TITLE: Scientific-Technical Conference on Metallography and Heat Treatment, Khar'kov (Nauchno-tekhnicheskaya konferentsiya po metallovedeniyu i termicheskoy obrabotke, Khar'kov)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 5, pp 53-57 (USSR)

ABSTRACT: The conference was organised by the Khar'kov Directorate of the Scientific-Technical Society of the Engineering Industry jointly with the Sovnarkhoz to celebrate the 40th anniversary of the October Revolution. About 200 research workers, engineers and technicians participated. Candidate of Technical Sciences V.V.Gavranek read a paper on the achievements of Soviet science and engineering in the field of metals technology and heat treatment during the forty years of Soviet rule. Doctor of Technical Sciences, Professor P. P. Petrosyan, Khar'kov Institute of Railway Engineers, read the paper "On the Mechanism of Transformation of Super-cooled Austenite". He expressed the view that all the transformations of super-cooled austenite in the temperature range

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Scientific-Technical Conference on **Metallography and Heat** Treatment, Khar'kov

A_1-M can be considered as processes linked with preliminary falling out of carbon from the austenite, which is a necessary condition for the subsequent polymorphous $\gamma \rightarrow \alpha$ transformation to proceed. There is a qualitative relation between the duration of the incubation period and the transformation mechanism in the entire temperature range A_1-M.

Candidate of Technical Sciences I. M. Lyubarskiy and Engineer O. M. Podgorna, Khar'kov Works for Building Transport Machinery imeni Malyshev, dealt with the changes in the characteristics of rubbing surfaces. Until recently the problems of wear and friction were not considered from the metallurgical point of view; the first experiments in this respect have shown how fruitful metallurgical investigations of rubbing surfaces can be. During the process of friction important structural and physico-chemical changes take place in the active layer. The nature and the dynamics of the changes during friction of the "white zone" was considered. In this part of the paper the influence of the white zone on the operational

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Scientific-Technical Conference on Metallography and Heat Treatment, Khar'kov

properties of the components was elucidated. Practical experience has shown that most failures are due to fatigue. A very effective method of increasing the stable strength of components is by surface work hardening.

Candidate of Technical Sciences A. A. Novik and Engineer V. I. Muzhikov reported on the work of the Khar'kov Works for Building Transport Machinery in the paper "Surface Work Hardening as an Effective Method of Increasing the Fatigue Strength of Highly Stressed Components". The highest sensitivity to failure was observed in components which contain stress concentrators inherent in the design. Surface work hardening of such components gives better results and is technologically more suitable than shot peening. Work hardening by means of rolls is suitable for components like gears, shafts, etc. Work hardening of friction discs and of cylinder jackets of diesel engines by shot peening proved highly effective.

Card 3/20 In his paper Engineer D. B. Boskoboynikov dealt with

PODGORNAYA, A.D.; KHORUNZHEY, O.I. [deceased]

Conditions causing the formation of fogs in the Kherson region.
Trudy Ukr NIGMI no.10:35-40 '59. (MIRA 13:5)

1. Aviameteorologicheskaya stantsiya v Grazhdanskom vozdushnom flote, Kherson.
(Kherson region--Fog)

USSR/Cultivated Plants - Fruits. Berries. M.

Abs Jour	:	Ref Zhur - Biol., No 10, 1958, 44318
Author	:	Pankratova, I.V., Podgornaya, A.S.
Inst	:	Kuban Agricultural Institute.
Title	:	Selection of Pollinators and Inter-Pollinators for New Varieties of Strawberries.
Orig Pub	:	Sb. stud. nauchn. rabot. Kubansk. s.-kh. in-t, 1956 (1957), vyp. 1, 77-81.
Abstract	:	21 combinations of numbered seedlings with the standard varieties of Kuban were used in the experiment on the study of pollination and inter-pollination of the strawberry on the plantation of the study-experimental establishment of the Kuban Agricultural Institute. The Kuban standard varieties were: Joseph Magomet, Muto, Ranniya Mosvira.

Card 1/2

PODGORNAYA, A. Ya.

42704. PODGORNAYA, A. Ya Epilepticheskiye Proyavleniya V Otsenke Nekotorykh Vospalitel'nykh Oslozhneniy Pri Rubtsevanii Mozgovoy Rany. Trudy In-ta Neyrokhirurgii Im. Burdenko, T. I, 1948, s. 341-54.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7 ,1948, s. 341-54.

PODGORNAYA, A.Ya.

Analysis of motor manifestations in epilepsy; role of motor analysor.
Vopr. neirokhir. 16 no.6:14-23 Nov-Dec 1952. (CLML 23:4)

1. Of the Neurological Sector (Head -- Prof. M. Yu. Rapoport), Institute of Neurosurgery imeni Academician N. N. Burdenko (Director -- B. G. Yegorov, Corresponding Member of the Academy of Sciences) of the Academy of Medical Sciences USSR.

PODGORNAYA, A. Ya.:

PODGORNAYA, A. Ya.: "Epileptic convulsive syndrome in the late period and in the residual state of traumatic disease of the brain." Acad Med Sci USSR. Moscow, 1956. (DISSERTATION FOR THE DEGREE OF DOCTOR IN MEDICAL SCIENCE).

Knizhnaya letopis'
No. 35, 1956. Moscow.

PODGORNAYA, A.Ya.

Electroencephalographic data on epileptic seizures following cerebrocranial trauma. Vop.neirokhir. 21 no.4:13-20 Je-Ag '57.
(MIRA 10:10)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(EPILEPSY, diagnosis,
EEG in traum. cases (Rus))
(ELECTROENCEPHALOGRAPHY, in various diseases,
epilepsy, traum. (Rus))

PODGORNAYA, A.Ya., doktor med.nauk; KUKLINA, A.S., kand.med.nauk (Moskva)

Clinical aspects of epileptic seizures in tumors of the cerebral hemispheres [with summary in English, p.63]. Vop.neirokhir. 23 no.1:12-17 '59. (MIRA 12:3)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni instituta neyrokhirurgii imeni akademika N.N. Burdenko AMN SSSR.
(BRAIN NEOPLASMS, compl.
epilepsy (Rus))
(EPILEPSY, etiol. & pathogen.
neoplasms (Rus))

GRINDEL', O.M.; PODGORNAYA, A.Ya. (Moskva)

Electroencephalographic changes in nonsevere and moderately severe cerebrocranial closed injuries. Vop.neirokhir. 23 no.4:17-22 Jl-Ag '59. (MIRA 12:10)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni akad.N.N.Burdenko AMN SSSR.
(BRAIN, wds. & inj.
cerebrocranial non-severe & moderately-severe closed inj. EEG (Rus))
(ELECTROENCEPHALOGRAPHY, in var. dis.
cerebrocranial non-severe & moderately-severe closed inj. (Rus))

GRINDEL', O.M.; PODGORNAYA, A.Ya. (Moskva)

Characteristics of electroencephalography in tumor lesions of subcortical ganglia. Vop. neirokhir. 27 no.5:34-39 S-O '63. (MIRA 17:5)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni N.N. Burdenko (dir. - prof. B.G. Yerogov) AMN SSSR.

ARENDT, A.A., prof.; ARKHANGEL'SKIY, V.V., kand. med. nauk; BOGDANOV, F.R., prof.; BONDARCHUK, A.V., prof.; KOPYLOV, M.B., prof.; KORNEV, P.G., zasl. deyatel' nauki RSFSR, prof.; KUSLIK,M.I., prof.; LEYBZON, N.D., doktor med. nauk; MAKAROV, M.P., kand. med. nauk; NIKOL'SKIY, V.A., prof.; PODGORNAYA, A.Ya., doktor med.nauk; RAZDOL'SKIY, I.Ya., prof.[[redacted]TSKAYA, V.I., kand. med.nauk; TUMSKOY, V.A., kand. med.nauk; UGRYUMOV, V.M., prof.; FISHKIN, V.I., kand. med. nauk; KHRAPOV, V.S., kand. med. nauk; CHIKOVANI, K.P., prof. [deceased]; SHLYKOV, A.A., prof.; PETROVSKIY, B.V., prof. zasl. deyatel' nauki RSFSR, otv. red.; YEGOROV, B.G., zasl. deyatel' nauki RSFSR prof., red. toma; MIRONOVICH, N.I., doktor med. nauk, zam. red.; PARAKHINA, N.L., tekhn. red.

[Manual on surgery] Mnogotomnoe rukovodstvo po khirurgii. Moskva, Medgiz. Vol.4. [Neurosurgery; the sequelae of lesions of the central nervous system. Diseases of the spine, the spinal cord and its membranes. Diseases of the vegetative nervous system] Neirokhirurgiia; posledstviia povrezhdenii tsentral'noi nervnoi sistemy. Zabolevaniia pozvonochnika, spinnogo mozga i ego obolochek. Zabolevaniia vegetativnoi nervnoi sistemy. 1963. 667 p. (MIRA 16:10)

1. Deystvitel'nyy chlen AMN SSSR (for Petrovskiy, Yegorov, Kornev). 2. Chlen-korrespondent AMN SSSR (for Bogdanov).
(NERVOUS SYSTEM—SURGERY) (SPINE—SURGERY)

PODGORNAYA, A.Ya., doktor med.nauk

Clinical aspects of tumors of the deep regions of the parietal lobe connected with the subcortical ganglia; clinical morphological study. Probl.sovr.neirokhir. 3:113-152 '59. (MIRA 16:6)
(BRAIN—TUMORS)

PODGORNAYA, A.Ya., doktor med.nauk (Moskva)

Clinical aspects of brain tumors with lesions of the subcortical ganglia. Vop.neirokhir. no.4:38-43 '61. (MIRA 14:12)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni akad. N.N. Burdenko AMN SSSR.
(BRAIN—TUMORS) (NERVES, CRANIAL)

PODGORNAYA, I.V.; POSTOVSKIY, I.Ya.

Syntheses of derivatives of thiosemicarbazide containing bis(β-hydroxyethyl)amino groups. Zhur.ob.khim. 33 no.6:2037-2040 Je '63. (MIRA 16:7)

1. Institut khimii Ural'skogo filiala AN SSSR.
(Semicarbazide)

PODGORNAYA, I.V.; POSTOVSKIY, I.Ya.

Syntheses of derivatives of thiourea and thiosemicarbazide containing a residue of morpholine. Zhur.ob.khim. 34 no.1:33-37 Ja '64.
(MIRA 17:3)

1. Ural'skiy filial AN SSSR, Institut khimii.

MALYUSOV, V.A.; MALAFEYEV, N.A.; KUZ'MIN, N.G.; ZHAVORONKOV, N.M.;
Prinimala uchastiye [illegible]

Studying high-speed uniflow rectification in a multistage tubular apparatus. Khim. prom. no.6:458-461 Je '64. (MIRA 18:7)

KAZARINOVA, N.F.; PODGORNAYA, I.V.

Chemistry of complexons. Report No.1: Derivatives of iminodiacetic acids. Trudy Inst.khim. UFAN SSSR no.4:103-110 '60. (MIRA 16:6)
(Complexons) (Acetic acid)

MALAFEYEV, N.A.; MALYUSOV, V.A.; UMNIK, N.N.; PODGORNAYA, I.V.; ZHAVORONKOV,
N.M.

Saturated vapor pressure of tetrachloroalkanes at low temperatures.
Dokl. AN SSSR 135 no.3:659-662 N '60. (MIRA 13:12)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. 2. Chlen-korrespondent AN SSSR (for Zhavoronkov).
(Paraffins) (Vapor pressure)

PODGORNAYA, I.V.; POSTOVSKIY, I.Ya.

Syntheses of 1,1-bis(β-hydroxyethyl)thiosemicarbazides.
Zhur.ob.khim. 33 no.3:744-748 Mr '63. (MIRA 16:3)

1. Institut khimii Ural'skogo filiala AN SSSR.
(Semicarbazide)

TREGUBENKO, I.P.; PODGORNAYA, I.V.; POSTOVSKIY, I.Ya.; SEMENOV, D.I.

Rapid elimination of yttrium, cerium, and lead from the organism with uramildiacetate, 1,2-diaminecyclohexanetetraacetate and polyethylenepolyaminopolyacetate. Radiobiologiia 2 no.2:200-206 '62.
(MIRA 15:4)

1. Laboratoriya biofiziki i Institut khimii Ural'skogo filiala AN SSSR, Sverdlovsk.
(RADIOISOTOPES)

PODGORNAYA, I.V.; TAYUSHEVA, N.N.; POSTOVSKIY, I.Ya.

Syntheses of derivatives of thiourea and thiosemicarbazide containing a piperidine radical. Zhur. ob. khim. 34 no.8:2521-2525 Ag '64. (MIRA 17:9)

1. Institut khimii Ural'skogo filiala AN SSSR.

MALAFEYEV, N.A.; MALYUSOV, V.A.; UMNIK, N.N.; SAKODYNSKIY, K.I.; ZHAVORNOKOV, N.M. Prinimali uchastiye: PODGORNAYA, I.V.; ABRAMOVA, V.P.; BARANOVA, V.I.

Determination of the fractionation factors of binary mixtures tetrachloroalkanes during vaporization in a high vacuum. Khim.prom. no.3:196-198 Mr '61. (MIRA 14:3)
(Paraffins) (Distillation, Fractional)

MALAFEYEV, N.A.; [illegible], [illegible]; [illegible]CHNEVA, L.V.

Determination of the separation coefficients of a mixture dibutyl azelate - di-2-ethylhexyl phthalate during evaporation in a high vacuum. Zhur.prikl.khim. 38 no.9:2066-
S '65. (MIRA 18:11)

PODGORNAYA, L.G. [Podhorna, L.H.]

Effect on immunogenesis of various doses and number of administrations of antigen during the immunization of people with a dianatoxin of clostridium perfringens and Cl. oedematiens. Mikrobiol. zhur. 25 no.1:16-20 '63. (MIRA 17:5)

1. Khar'kovskiy nauchno-issledovatel'skiy institut vaktsin i syrovotok im. Mechnikova.

PODGORNAYA, L.G.

Study of the immunogenic effectiveness of a gangrene dianatoxin (perfringens and oedematiens) in human revaccinations. Zhur. mikrobiol., epid. i immun. 33 no.2:123-124 F '62. (MIRA 15:3)

1. Iz Khar'kovskogo instituta vaktsin i syvorotok imeni I.IL. Michnikova.

(GAS GANGRENE)
(TOXINS AND ANTITOXINS)

WA-50

WA50 L 05134-67 EWT(1) JK

19 B 6

ACC NR: AP6031134 SOURCE CODE: UR/0438/66/028/004/0056/0061

AUTHOR: Nechayevs'ka, M. R. --Nechayevskaya, M. R.; Cherkas, G. P. -- Cherkes, G. P.; Kalinichenko, M. F. --Kalinichenko, N. F.; Biryukova, S. V.; Berezhkivs'ka, L. Ya. --Berezhkovskaya, L. Ya.; Pidgorna, L. G. --Podgornaya, N. G.; Mukhina, A. O. --Mukhina, A. A.; Polchenko, O. T.; Leybova, I. M.; Konik, V. Ya.

ORG: Khar'kov Institute of Vaccines and Sera im. Mechnikov (Kharkivs'kyy institut vaktsin i sirovatok)

TITLE: Formation conditions of anatoxins of Clostridium perfringens, Cl. Oedematiens and Cl. sepepticum from toxins obtained in meatless media

SOURCE: Mikrobiolohichnyy zhurnal, v. 28, no. 4, 1966, 56-61

TOPIC TAGS: toxoid, toxin, clostridium perfringens, Clostridium oedematiens, Clostridium septicum, bacteria toxin

ABSTRACT: Detoxification conditions for Clostridium perfringens, Cl. oedematiens and Cl. septicum toxins were studied. Cl. perfringens is best denatured by adding two doses of 0.3 and 0.2% formaline at 24-hr-intervals, while maintaining the pH

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L 05134-67

ACC NR: AP6031134

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of the medium between 7.2—7.4, and the temperature at 38C. Detoxification takes seven to ten days under these conditions. The antitoxin-fixing activity of the toxiod obtained fluctuates between 4 and 8 EC with the native toxin titer being 400—800 Dlm/ml. The best procedure for denaturation of Cl. oedematiens toxin is addition of 0.4% Formalin. A temperature of 38C is maintained for two days, followed by storage at room temperature for 5—7 days. Toxoids with antitoxin-fixing activities of 70--120 EC and a native toxin activity of 15,000--22,000 Dlm/ml were obtained. The Cl. septicum was denatured with minimum loss of antitoxin-fixing properties by the addition of two consecutive doses of 0.15 and 0.1% Formalin, at 38C for two days with subsequent storage at room temperature for 5—7 days. The resulting toxoids have an activity of 2--4 EC with native toxin titers of 200--400 Dlm/ml. [Based on authors' abstract] [W.A.50] [GC]

SUB CODE: 06, 13/ SUBM DATE: 07Apr65/

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Card 2/2

PODGORNAYA, L.I.

Morphological characteristics of landslides in the Volga Valley portion of Gorkiy and Cheboksary depending on the lithology of component rocks. Vest. LGU 20 no.24:144-147 '65. (MIRA 19:1)

1. Submitted May 31, 1965.

L 1851-66 EWT(m)/EPF(c)/EWP(j)/EWA(c) RM

ACCESSION NR: AP5021556

UR/0286/65/000/013/0021/0021
547.652.1.787.002.2

42
B

AUTHOR: Krasovitskiy, B. M.; Poduzhaylo, V. F.; Podgornaya, L. M.
44,55 44,55 44,55

TITLE: Liquid scintillators. Class 12, No. 172331

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 21

TOPIC TAGS: scintillator, cosmic radiation

ABSTRACT: An Author Certificate has been issued for a preparative method for liquid scintillators for studying cosmic radiation. The scintillators are based on vaseline oil with added naphthalene or 1-methylnaphthalene and 2,5-diphenyloxazole. 1 [BO]

55 13,55 7,44

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov (All-Union Scientific Research Institute of Single Crystals) 44,55

SUBMITTED: 04Feb63 ENCL: 00 SUB CODE: OP, AA

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4087

Card 1/1

NAGORNAYA, L.L.; KILIMOV, A.P.; DISTANOV, B.G.; PODGORNAYA, L.M.

Plastic scintillators with additions of aryl-substituted pyrazolines. Prib.i tekh.eksp. no.2:48-50 Mr-Ap '60. (MIRA 13:7)

1. Khar'kovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov.
(Scintillation chambers) (Pyrazoline)

PODGORNAYA, L.M.

24 cric

82831
S/120/60/000/02/012/052
E032/E314

AUTHORS: Nagornaya, L.L., Kilimov, A.P., Bulanov, B.G. and Podgornaya, L.M.

TITLE: Plastic Scintillators with Additions of Aryl-substituted Pyrazolines

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 2, pp 48 - 50 (USSR)

ABSTRACT: The scintillation efficiency and the luminescence spectrum of polystyrene solutions of the following substances have been investigated:
1.3-diphenyl-5-(2-chlorophenyl)-pyrazoline;
1.5-diphenyl-3-(4-biphenyl)-pyrazoline; 1.5-diphenyl-3-(1-naphthyl)-pyrazoline; 1.5-diphenyl-3-(2-naphthyl)-pyrazoline. It was found that polystyrene solutions with the addition of 2% n-terphenyl and 0.2% 1.3-diphenyl-5-(2-chlorophenyl)-pyrazoline have a scimulation efficiency of 155%. Triaryl pyrazolines can be used as additives to plastic scintillators. They are most usefully employed as spectrum shifters. Figures 1 and 2 show the photoluminescence spectra of the plastic scintillators and Figures 3 and 4 the concentration

Card1/2

2

dependence of the scintillation efficiency.
There are 4 figures, 1 table and 3 Soviet references.

ASSOCIATION: Khar'kovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov (Khar'kov Branch of the All-Union Scientific Research Institute for Chemical Reagents)

SUBMITTED: January 17, 1959

Card 2/2

PODGORNAYA, L.S.

Contribution to the study of Protococcales in Lake Vrevo,
Leningrad Province. Bot.zhur. 47 no.11:1669-1671 N '62.
(MIRA 16:1)

1. Leningradskiy gosudarstvennyy universitet.
(Vrevo, Lake—Algae)

CHUPAKHIN, O.N.; PUSHKAREVA, Z.V.; KOKOSHKO, Z.Yu.; PODGORNAYA, M.I.

Reactions and derivatives of quinaldine. Part 3: Synthesis and properties of thioquinaldine amides. Zhur. org. khim. 1 no.4:772-777 Ap '65. (MIRA 18:11)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

PODGORNAYA, N.I.

Unevenness of shade in fabrics. Tekst.prom. 22 no.2:55 F '62.
(MIRA 15:3)

1. Nachal'nik nauchno-issledovatel'skoy laboratorii Arzhenskoy sukonnoy fabriki Tambovskogo sovnarkhoza.
(Dyes and dyeing--Wool)

BASKIN, N.L., inzh.; ~~PODGORNAYA, N.I.~~, inzh.; GRIGOR'YEVA, A.A., master
GERASIMOVA, N.S., tekhnik-khimik

Simplified method of dyeing wool. Tekst.prom. 21 no.2:70
Ja '61. (MIRA 14:3)
(Dyes and dyeing--Wool)

BYKOVSKAYA, Ye.V.; POLEVAYA, N.I.; PODGORNAYA, N.S.

Absolute chronology of Mesozoic and Cenozoic volcanic and intrusive formations in the Olga-Tetyukhe area. Sov.geol. 3 no.5:107-114 My '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
(Tetyukhe region (Maritime Territory)—Geology, Stratigraphic)

20-118-6-33/43

AUTHORS: Zhamoyda, A. I., Podgornaya, N. S., Sosnina, M. I.

TITLE: On the Lower Carboniferous Sediments of the Sikhote-Alin' Mountains (Hydrographical Area of the Avvakumovka -River) (O nizhnekamennougol'nykh otlozheniyakh Sikhote-Alinya (basseyn r. Avvakumovki)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 6, pp. 1166-1168 (USSR)

ABSTRACT: Since faunae were found for the first time in the chalks of these mountains (1932), the age of the two found species Productus ex gr. giganteus Mart. and Reticularia has not been determined precisely and has been designated as Permo-Carboniferous. Foraminifers which were found later, made the occurrences of the Lower Carboniferous time in the Primor'ye appear to be doubtful (references 1,2). The authors succeeded in determining foraminifers of the Visean age in chalks of the Skalistyy-spring (right affluent of the Avvakumovka), and in collecting further material and investigating the stratigraphic cross-section of the corresponding sediments. The latter form - with respect to structure - a southeastward

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20-118-6-33/43

On the Lower Carboniferous Sediments of the Sikhote-Alin'
Mountains (Hydrographical Area of the Avvakumovka - River)

overturned anticlinal fold with a north-eastern direction of strata. It is complicated by some secondary folds and covered by basal conglomerates of the Middle Carboniferous. The authors propose the term Skalistaya -suite (according to the name of the spring) for these sediments. It is clearly subdivided into 2 concordantly situated substrata. The lower substratum is characterized by a lithological "variety" and has a total thickness of 3oo to 35o m. It contains 12 layers of rock 5 to 75 m thick. A foraminiferous fauna of 38 species and subspecies was determined in an intermediate layer of chalk. This foraminiferous complex has a distinctly marked Lower Carboniferous feature. Most of the species are widely spread in the Upper-Visean deposits of the Russkaya -plateau of the Ural, Central - Kazakhstan and Srednyaya Aziya. These sediments correspond most exactly to the Serpukhovskiy and partly to the Okskiy substage of the unified scheme of carboniferous sediments of the European part of the USSR. The upper Skalistaya substratum is approximately 7oo m thick. A layer

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20-118-6-33/43

On the Lower Carboniferous Sediments of the Sikhote-Alin' Mountains (Hydrographical Area of the Avvakumovka- River)

(1oo to 13o m **thick**) - with small foraminifers (Endothyra) with a Lower Carboniferous feature is deposited in the middle of it. The lower stratum is - to a larger extent than all other masses of the Sikhote - Alin'-mountains, - saturated with silicate rocks (more than 9o% of the strata). Marine Visean sediments are known in the Northeast of the USSR and in the Kirin province of Manchuria (reference 3) within the range of the Nanking hills and in North - eastern Hupei (reference 4). The authors further debate with H. Igo(reference 5) who reports that Upper-Visean sediments occur in the Khida massif (Hida). The foraminiferous fauna of the Skalistyy spring can be easily correlated with the Visean sediments of Central Asia and the Central Kazakhstan and the European USSR. Due to this it may be assumed that the Lower - Carboniferous transgression of the synclinals of Sikhote-Alin' had an open connection with the seas of the afore- mentioned regions during the Upper-Visean time. This connection was apparently effected through South-Manchuria and China. There are 5 references, 4 of which are Soviet.

Card 3/4

SOSNINA, M.I.; ZHAMOYDA, A.I.; SOKOLOV, R.I.; PODGORNAYA, N.S.

Paleozoic sediments of the massif of the Zarod Mountain (Maritime Territory). Trudy VSEGEI 93:153-159 '64. (MIRA 18:7)

PODGORNAYA, N.S.; GUR'YEV, A.G.

Some characteristics of the sheared conglomerate formation **in the Vorozovka Valley in the northern Yenisey** Ridge. Inform.sbor.VSEGEI no.40:17-28 '60. (MIRA 14:12)
(Vorogovka Valley—Conglomerate)

ZHAMOYDA, A.I.; PODGORNAYA, N.S.; SOSNINA, M.I.

Lower Carboniferous deposits of Sikhote-Alin (Avvakumovka Valley).
Dokl. AN SSSR 118 no.6:1166-1168 F '58. (MIRA 11:5)

1.Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
Predstavleno akademikom D.V. Nalivkinym.
(Avvakumovka Valley--Geology, Stratigraphic)

PODGORNAYA, N.I.; GRIGOR'YEVA, A.A., master

Bleaching of dark naturally-colored wool. Tekst.prom. 20 no.8: 60-61 Ag '60. (MIRA 13:9)

1. Zaveduyushchaya khimicheskoy laboratoriyey Arzhenskoy sukonnoy fabriki (for Podgornaya).
(Dyes and dyeing--Wool) (Bleaching)

L 2573-66 EWT(m)/EWP(w)/EPF(c)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HW/DJ/GS

ACCESSION NR: AT5022671 UR/0000/65/000/000/0133/0137

68

AUTHORS: Lyubarskiy, I. M.; Podgornaya, O. F.; Lyubchenko, A. P.; Voskoboynikov, D. B.; Turovskiy, M. L.

44,55 44,55 44,55 44,55 44,55 18,44,55

65

B

TITLE: The structural mechanism of wear (on the question of the fatigue nature of wear)

SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya treniya i iznosa (Theory of friction and wear). Moscow, Izd-vo Nauka, 1965, 133-137

TOPIC TAGS: friction, wear, friction wear, surface wear, surface fatigue

ABSTRACT: As an extension of his earlier formulation of the three-stage process of friction wear, I. V. Kragel'skiy has proposed a mechanism of fatigue type of wear. Based on structural and property investigations of individual microvolumes in the active friction layers, the nonuniformity of structure and material properties of separate microvolumes has been established. It can be assumed that the friction of rough surfaces is a statistical combination of simultaneous processes of brittle fracture and plastic deformation of microirregularities. The relative importance of the two processes is determined by the different effects of thermal and surface treatments and of friction on the α and γ-phases and their substructures. Under heavy friction conditions, processes of cold hardening of the γ-phase and

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L 2573-66

ACCESSION NR: AT5022671

3

weakening of the α-phase (separation of carbide phase, etc) occur. The most wear-resistant conditions for a homogeneous α-γ alloy are met when the γ-phase is not "cold hardened," while the α-phase is "cold hardened." The wear rate ($m\ell$/cycle) histories of many experiments performed under gear tooth friction conditions indicate the cyclic nature of the wear rate. Microhardness histories during the experiments showed a comparatively high initial austenite hardness, which increased with time, until it and the friction torque suddenly decreased. Thus wear occurs when individual microvolumes of the surface loose their plasticity due to cold working and are worn away, exposing new surface which repeats the cycle. Orig. art. has: 4 figures.

ASSOCIATION: Nauchnyy sovet po treniyu i smazkam, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR) 44,55

SUB CODE: ME

ENCL: 00

SUBMITTED: 18May65

OTHER: 000

NO REF SOV: 000

Card 2/2

PODGORNAYA, O.F.

PHASE I BOOK EXPLOITATION SOV/5053

Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh. 3d, 1958.

Iznos i iznosostoykost'. Antifriktsionnyye materialy (Wear and Wear Resistance. Antifriction Materials) Moscow, Izd-vo AN SSSR, 1960. 273 p. Errata slip inserted. 3,500 copies printed. (Series: Its: Trudy, v. 1)

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya.
Resp. Ed.: M. M. Khrushchov, Professor; Eds. of Publishing House: M. Ya. Klebanov, and S. L. Orpik; Tech. Ed.: T. V. Polyakova.

PURPOSE: This collection of articles is intended for practicing engineers and research scientists.

COVERAGE: The collection, published by the Institut mashinovedeniya, AN SSSR (Institute of Science of Machines, Academy of Sciences USSR) contains papers presented at the III Vsesoyuznaya Konferentsiya po treniyu i iznosu v mashinakh (Third All-Union Conference on Friction and Wear in Machines) which was held April 9-15, 1958. Problems discussed were in 5 main areas: 1) Hydrodynamic Theory of Lubrication and Friction Bearings (Chairmen: Ye. M. Gut'yar, Doctor of Technical Sciences, and A. K. D'yachkov, Doctor of Technical Sciences); 2) Lubrication and Lubricant Materials (Chairman: G. V. Vinogradov, Doctor of Chemical Sciences); 3) Dry and Boundary Friction (Chairmen: B. V. Deryagin, Corresponding Member of the Academy of Sciences USSR, and I. V. Kragel'skiy, Doctor of Technical Sciences); 4) Wear and Wear Resistance (Chairman: M. M. Krushchov, Doctor of Technical Sciences); and 5) Friction and Antifriction Materials (Chairmen: I. V. Kragel'skiy, Doctor of Technical Sciences, and M. M. Krushchov, Doctor of Technical Sciences). Chairman of the general assembly (on the first and last day of the conference) was Academician A. A. Blagonravov. L. Yu. Pruzhanskiy, Candidate of Technical Sciences, was scientific secretary. The transactions of the conference were published in 3 volumes, of which the present volume is the first. This volume contains articles concerning the wear and wear resistance of antifriction materials. Among the topics covered are: modern developments in the theory and experimental science of wear resistance of materials, specific data on the wear resistance of various combinations of materials, methods for increasing the wear resistance of certain materials, the effects of friction and wear on the structure of materials, the mechanism of the seizing of metals, the effect of various types of lubricating materials on seizing, abrasive wear of a wide variety of materials and components under many different conditions, modern developments in antifriction materials, and the effects of finish machining on wear resistance. Many personalities are mentioned in the text. References accompany most of the articles.

Gorb, M. L. X-Ray Investigation of the Structure of Steel Deformed by Nonuniform Volumetric Compression at Normal and Elevated Temperatures 128

Iokheles, F. Ya., and V. I. Startsev. On the Stresses and Structural Transformations in Steel Due to Wear 136

Klokova, E. F. Gripping of Metals Under Ordinary Conditions and the Action of Normal Loads 144

Kostetskiy, B. I., P. K. Topekha, and I. G. Nosovskiy. Secondary Structures on Friction Surfaces, and the Wear of Metals 152

Lyubarskiy, I. M., N. P. Teplykh, D. B. Voskoboynikov, O. F. Podgornaya, and M. L. Turovskiy. Dynamics of Structural Transformations in the Case of Wear 163

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PODGORNOVA, P.G., dotsen

Melioidosis. Med. zhur. Uzb. no. 9:7-10 S '60. (MIRA 13:10)
(MELIOIDOSIS)

SUKHANOVSKIY, S.I.; AKHMINA, Ye.I.; PODGORNAYA, T.A.; BEZMOZGIN, L.S.; NEMCHENKO, A.G.; YUDKEVICH, Yu.D.

Contact pyrolysis of the settled tar from the thermolysis of hydrolyzed lignin. Gidroliz. i lesokhim. prom. 17 no.5:17-18 '64.
(MIRA 17:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Sukhanovskiy, Akhmina, Podgornay). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut topliva (for Bezmozgin, Nemchenko, Yudkevich).

PODGORNAYA, YE. A.

Dissertation: "Thermochemical Investigation of Solutions of Cobalt Chloride in Water." Cand Chem Sci, Leningrad Technological Inst, Leningrad, 1953. (Referativnyy Zhurnal--Khimiya, Moscow, No 4, Feb 54)

SO: SUM 243, 19 Oct 1954

BARON, N.M:KVYAT, E.I.: PODGORNAYA, Ye.A.; PONOMAREVA, A.M.; RAVDEL', A. A. TIMOFEYEVA, Z.N.; MISHCHENKO, K.P., redaktor; LEVIN, S.S., tekhnicheskiy redaktor; FOMKINA, T.A., tekhnicheskiy redaktor.

[Concise reference book of values in physics and chemistry] Kratkii spravochnik fiziko-khimicheskikh velichin. Sost. N.M. Baron, i dr. Leningrad, Gos.nauchno-tekhn. izd-vo khimicheskoi lit-ry, 1955. 86 p. (Chemistry--Tables, etc.) (Physics--Tables, etc.)(MLRA 8:8)

Podgornaya, E.A.

~~[illegible]~~
[illegible]

The solvation of ions in solutions of electrolytes. [illegible]
A. F. Kapustinskii's rule of thermoche[illegible]

thermochem. logarithms (C. 4. 43) [illegible]

PODGORNAYA, YE. A.

BARON, N.M.; KVYAT, E.I.; PODGORNAYA, Ye.A.; PONOMAREVA, A.M.; RAVDEL', A.A.; TIMOFEYEVA, Z.N.; MISHCHENKO, K.P., redaktor; LOBINA, N.K., redaktor; LEVIN, S.S., tekhnicheskiy redaktor; FOMKINA, T.A., tekhnicheskiy redaktor

[Concise manual of physical and chemical measures] Kratkii spravochnik fiziko-khimicheskikh velichin. Pod red. K.P.Mishchenko i A.A.Ravdelia. Izd. 2-oe, dop. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1957. 111 p. (MIRA 10:9)

(Weights and measures--Tables, etc.)

PODGORNAYA, Ye. A.

PHASE I BOOK EXPLOITATION SOV/3557

Kratkiy spravochnik fiziko-khimicheskikh velichin (Short Handbook of Physical and Chemical Values) 3rd ed., enl. Leningrad, Goskhimizdat, 1959. 122 p. 50,000 copies printed.

Compilers: N. M. Baron, E. I. Kvyat, Ye. A. Podgornaya, A. M. Ponomareva, A. A. Ravdel', and Z. N. Timofeyeva; Ed. (Title page): K. P. Mishchenko and A. A. Ravdel'; Ed. (Inside book): N. K. Lobina; Tech. Eds.: S. S. Levin and T. A. Fomkina.

PURPOSE: This book is intended for students at schools of higher education and tekhnikums, aspirants, and teachers.

COVERAGE: This handbook contains tables on the most important physical and chemical values used in physical chemistry laboratory work and for various calculations in physics and chemistry. In this third edition of the handbook important changes have been included in the tables for radioactivity and nuclear reaction, thermodynamic values, empirical data and ratios for calculating thermodynamic values, and photochemical reactions. The remaining tables have been revised and slightly enlarged. The tables for radioactivity, nuclear

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Short Handbook of Physical (Cont.) SOV/3557

reaction, and protection from radioactive radiation were revised and enlarged under the direction of I. A. Vasil'yev and the editorship of K. A. Petrzhak. The handbook contains a four-place logarithm scale. There are 82 references: 51 Soviet, 28 English, 3 German.

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D. I. Mendeleyev's periodic table of chemical elements 4
1. Important constants 6
2. Relationship between different units of energy 7
3. Elementary particles 8
4. Radioactive series 10

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MISHCHENKO, K.P.; PODGORNAYA, Ye.A.

Effective radii of water molecules in solvate ion sheaths as a characteristic of solvate sheath orderliness. Trudy LTI no.61: 21-24 '60. (MIRA 15:5)

(Solvation) (Electrochemistry)

PODGORNAYA, Ye.A.

Specific heats of copper sulfate aqueous solutions. Trudy LTI no.61:43-46 '60. (MIRA 15:5)
(Copper sulfate) (Heat of solution)

MISHCHENKO, K.P., prof.; PODGORNAYA, Ye.A.

Thermochemistry of electrolyte solutions. Part 6: Aqueous solutions of $CoCl_2$ at different temperatures. Zhur.ob.khim. 31 no.6:1743-1745 Je '61. (MIRA 14:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Cobalt chloride) (Heat of solution)

PODGORNAYA, YE. A.

S/076/60/034/008/023/033/XX
B015/B063

AUTHORS: Vasil'yev, V. P., Zolotarev, Ye. K., Kapustinskiy, A. F., Mishchenko, K. P., Podgornaya, Ye. A., and Yatsimirskiy, K. B.

TITLE: The Most Probable Values of Chemical Heats, Energies, and Entropies of the Hydration of Various Ions at Infinite Dilution and 25°C

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 8, pp. 1763 - 1767

TEXT: In the last 11 years three of the present authors have published values of the chemical heats H_h^i and energies Z_h^i of hydration and of the entropy S_i^o of various ions in aqueous solutions (Refs.1-3). As these values disagree and since many topochemical characteristics have been improved during the last few years, the most probable values of the above-mentioned quantities have been thoroughly checked. Results are given in a table; two methods were used to calculate the values for ΔH_h^i as from the

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equation $\Delta H_h^i = (-\Delta H_{aq}^i + \Delta H_{gas}^i - 102.5 \cdot n)$ kcal/g-ion (1) (ΔH_{aq}^i and ΔH_{gas}^i = standard variations of the enthalpy of the ion during its formation in solution or gaseous state; - 102.5 kcal/g-ion = standard variation of enthalpy during the production of a hydrated proton in an aqueous solution of infinite dilution; n = ion charge). b) The table also contains the average values of the simultaneous calculation of ΔH_h^i from the total chemical heat of hydration ΔH_h^z of the electrolyte at infinite dilution, from the energy ΔH_{lat} of the crystal lattice, from the integral heat of solution ΔH_o, and from the values of the thermochemical cycle. The initial values for the calculation of S_h^i are given in columns 3 and 4; S_{aq}^o = standard entropy of water ions referred to the entropy of the proton in the aqueous solution $S_{H^+}^o = 0$; S_{gas}^o = standard entropy of gaseous ions; ΔS_h^i = chemical entropy of ion hydration; and

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$\Delta S_h^i = (S_{aq}^o - S_{gas}^o + 6.35)$ e.u. (5). There are 1 table and 19 references: 13 Soviet and 6 US.

SUBMITTED: November 15, 1958

Text to the table: The Most Probable Values of Chemical Heats, Entropies, and Energies of Hydration of Various Ions at Infinite Dilution and 25°C; Column 1: ion; 2: $-\Delta H_h^i$, kcal/g-ion; 3: .... e.u.; 4: S_{gas}^o, e.u.; 5: .... e.u.; 6: .... kcal/g-ion.

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S/076/60/034/008/023/039/XX
B015/B063

Наиболее вероятные значения химических теплот, энтропий и энергий гидратации отдельных ионов при бесконечном разведении в 25°

1	2	3	4	5	6
Ион	$-\Delta H^0_h$, [illegible]	S^0_{aq}, [illegible] ($S^0_{H}=0$)	[illegible]	$-\Delta S^0_h$, [illegible] ($S^0_{H}=0$)	$-\Delta Z^0_h$, [illegible]
Ag^+	117	17,67	38,95	15,83	113
Al^{3+}	1125	−74,9	35,82	104,6	1094
Ba^{2+}	320	3	40,67	31	310
Be^{2+}	601	−55	32,56	81	577
Br^-	76	19,29	39,06	13,42	72
Ca^{2+}	386	−13,2	37,07	43,9	373
Cd^{2+}	439	−14,6	40,06	48,5	425
Ce^{3+}	860	−44	44,29	82	836
Ce^{4+}	1348	—	—	—	—
Cl^-	84	13,2	38,64	17,1	79
Co^{2+}	499	−26,7	42,73	63,1	490
Co^{3+}	450	—	—	—	—
Cs^+	67	31,8	40,38	2,4	66
Cu^+	146	9,4	38,38	22,6	139
Cu^{2+}	509	−23,6	41,94	50,2	491
F^-	116	−2,3	34,78	30,7	107

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1	2	3	4	5	6
Fe^{2+}	467	−27,1	42,38	63,1	448
Fe^{3+}	1056	−70,1	41,53	105,3	1025
Ga^{3+}	1131	−83	38,63	115	1097
Hg^{2+}	443	−5,4	41,80	40,9	431
J^-	67	28,14	40,54	8,05	64
In^{3+}	994	−62	40,14	96	965
K^+	81	24,5	37,03	6,2	79
La^{3+}	798	−39	40,71	73	774
Li^+	127	3,4	31,77	23,0	121
Mg^{2+}	467	−28,2	35,51	57,4	457
Mn^{2+}	443	−19,1	41,50	54,3	433
Na^+	101	14,4	35,35	14,6	97
Ni^{2+}	511	−23,6	42,56	63,6	491
Pb^{2+}	362	5,1	41,99	30,2	353
Ra^{2+}	310	13	42,16	23	303
Rb^+	75	29,7	39,26	3,2	74
S^{2-}	320	−6,1	34,31	34,6	310
Sc^{3+}	958	−56	37,35	87	932
Se^{2-}	—	0	39,02	33	—

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1	2	3	4	5	6
Sn^{2+}	378	−15,0	40,24	49,8	364
Sr^{2+}	353	−9,3	39,35	39,3	341
Tl^+	82	30,4	41,86	5,1	80
Tl^{3+}	1012	−42	41,86	78	988
Y^{3+}	877	−48	39,36	81	853
Zn^{2+}	498	−25,45	38,46	57,36	479
AsO_4^{3-}	—	−34,6	97,4	95,8	—
BF_4^-	—	39,3	41,3	11,8	—
BrO_3^-	—	38,5	67,5	22,2	—
CH_3COO^-	101	—	—	—	—
ClO_3^-	68	—	—	—	—
ClO_4^-	54	43,2	62,9	13,3	50
CN^-	83	22	41,9	23	76

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1	2	3	4	5	6
CNO^-	93	—	—	—	—
CNS^-	74	35	—	—	—
CO_3^{2-}	127	−12,7	38,7	65,3	108
CrO_4^{2-}	—	9,2	61,7	40,1	—
$HCOO^-$	93	—	—	—	—
HCO_3^-	91	—	—	—	—
HS^-	82	—	—	—	—
JO_4^-	—	32,6	70,2	11,0	—

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VASIL'YEV, V.P.; ZOLOTAREV, Ye.K.; KAPUSTINSKIY, A.F.; MISHCHENKO, K.P.; PODGORNAYA, Ye.A.; YATSIMIRSKIY, K.B.

Most probable values for the chemical heats, energies and entropies of hydration of individual ions at infinite dilution and 25°C. Zhur. fiz. khim. 34 no.8:1763-1767 Ag '60. (MIRA 13:9)
(Ions) (Hydration)

PODGORNAYA, Yelena Aleksandrovna, kand.khim.nauk; BORSHCHEVSKAYA, S.I., red.; ONOSHKO, N.G., tekhn.red.

[What we get out of "black gold"; chemical products from petroleum] Chto daet nam "chernoe zoloto"; khimicheskie produkty iz nefti. Leningrad, Lenizdat, 1960. 53 p. (MIRA 13:11)

(Petroleum products) (Petroleum chemicals)

DESHMUKKH, G.S.; ANAND, V.D.; MEKHROTRA, K.N.; PODGAYSKAYA, Z.I. [translator]

Nitrophenylhydrazones of isonitrosoacetophenone as sensitive and selective reagents for cobalt. Zhur.anal.khim. 16 no.3:313-314 My-Je '61. (MIRA 14:6)

1. Banaras Hindu University, Varanasi, India.
(Cobalt—Analysis)
(Chemical tests and reagents)